Table A3. Poisson distribution

$$F(x) = \mathbf{P}\left\{X \le x\right\} = \sum_{k=0}^{x} \frac{e^{-\lambda} \lambda^k}{k!}$$

| X   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| 0.1   | r  |   |   |   |   |   |   | λ   |   |   |   |   |   |  |  |  |
| 1   995   982   963   938   910   878   844   809   772   736   699   663   637   575   582   583   379   920   990   879   857   857   833   809   31   100   1.  | J.   | 0.1   | 0.2   | 0.3   | 0.4   | 0.5   | 0.6   | 0.7   | 0.8   | 0.9   | 1.0   | 1.1   | 1.2   | 1.3  | 1.4  | 1.5  |
| 1   995   982   963   938   910   878   844   809   772   736   699   663   637   575   582   583   379   920   990   879   857   857   833   809   31   100   1.  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 1.00  |  | 1   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 3   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 1.00  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 5   |  | 1   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 6         1.00         1  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| Table   Tabl  |  | 1   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| Table   Tabl  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| Table   Tabl  |  | ı   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 0 .202 .183 .165 .150 .135 .122 .111 .100 .091 .082 .074 .067 .061 .055 .050 1 .525 .493 .463 .434 .406 .380 .355 .331 .308 .287 .267 .249 .231 .215 .199 2 .783 .757 .731 .704 .677 .650 .623 .596 .570 .544 .518 .494 .469 .446 .423 3 .921 .907 .891 .875 .857 .839 .819 .799 .779 .758 .736 .714 .692 .670 .647 .4 .976 .970 .964 .956 .947 .938 .928 .916 .904 .891 .877 .863 .848 .832 .815 5 .994 .992 .990 .987 .983 .980 .975 .970 .964 .958 .951 .943 .935 .926 .916 .999 .998 .997 .997 .995 .994 .993 .991 .988 .986 .983 .979 .976 .971 .966 .7 1.00 1.00 .999 .999 .999 .999 .999 .999  | $\boldsymbol{x}$   |   |   |   |   |   |   |   | 2.0   | o :   |   |   |   |  |  | 0.0  |
| 1 525 493 463 434 406 380 355 331 308 287 267 249 231 215 199 2 783 .757 .731 .704 .677 .650 .623 .596 .570 .544 .518 .494 .469 .446 .423 3 .921 .907 .891 .875 .857 .839 .819 .799 .779 .758 .736 .714 .692 .670 .647 4 .976 .970 .964 .956 .947 .938 .988 .916 .904 .891 .877 .863 .848 .832 .815 5 .994 .992 .990 .987 .983 .988 .981 .991 .988 .986 .983 .979 .976 .911 .966 6 .999 .998 .997 .997 .995 .994 .993 .991 .988 .986 .983 .979 .976 .971 .966 7 1.00 1.00 .099 .999 .999 .999 .999 .999   |  | 1.6   | 1.7   | 1.8   | 1.9   | 2.0   | 2.1   | 2.2   | 2.3   | 2.4   | 2.5   | 2.6   | 2.7   | 2.8  | 2.9  | 3.0  |
| 1 525 493 463 434 406 380 355 331 308 287 267 249 231 215 199 2 783 .757 .731 .704 .677 .650 .623 .596 .570 .544 .518 .494 .469 .446 .423 3 .921 .907 .891 .875 .857 .839 .819 .799 .779 .758 .736 .714 .692 .670 .647 4 .976 .970 .964 .956 .947 .938 .988 .916 .904 .891 .877 .863 .848 .832 .815 5 .994 .992 .990 .987 .983 .988 .981 .991 .988 .986 .983 .979 .976 .911 .966 6 .999 .998 .997 .997 .995 .994 .993 .991 .988 .986 .983 .979 .976 .971 .966 7 1.00 1.00 .099 .999 .999 .999 .999 .999   | 0  | .202  | .183  | .165  | .150  | .135  | .122  | .111  | .100  | .091  | .082  | .074  | .067  | .061   | .055   | .050   |
| 2   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 3   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 5         .994         .992         .990         .987         .983         .980         .975         .970         .964         .958         .951         .943         .935         .926         .916           6         .999         .998         .997         .991         .998         .997         .997         .996         .995         .993         .992         .990         .988           8         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         .00         .999  | 3  |   |   |   |   |   |   |   |   |   |   |   | .714  | .692   | .670   | .647   |
| 6   | 4  | .976  | .970  | .964  | .956  | .947  | .938  | .928  | .916  | .904  | .891  | .877  | .863  | .848   | .832   | .815   |
| 7       1.00       1.00       1.999       .999       .999       .998       .997       .996       .995       .993       .992       .999       .995       .900       .100       .000       .000       .000       .000  | 5  | .994  | .992  | .990  | .987  | .983  | .980  | .975  | .970  | .964  | .958  | .951  | .943  | .935   | .926   | .916   |
| 7       1.00       1.00       1.999       .999       .999       .998       .997       .996       .995       .993       .992       .999       .995       .900       .100       .000       .000       .000       .000  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 8       1.00 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 1.00  |  | 1   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   |  |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   |  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00   | 1.00   |
|   |  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00   | 1.00   |
| 3.5         4.0         4.5         5.0         5.5         6.0         6.5         7.0         7.5         8.0         8.5         9.0         9.5         10.0         10.5           0         .030         .018         .011         .007         .004         .002         .002         .001         .001         .000   |  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00   | 1.00   |
| 1       .136       .092       .061       .040       .027       .017       .011       .007       .005       .003       .002       .001       .001       .000       .000         2       .321       .238       .174       .125       .088       .062       .043       .030       .020       .014       .009       .006       .004       .003       .002         3       .537       .433       .342       .265       .202       .151       .112       .082       .059       .042       .030       .021       .015       .010       .007         4       .725       .629       .532       .440       .358       .285       .224       .173       .132       .100       .074       .055       .040       .029       .021         5       .858       .785       .703       .616       .529       .446       .369       .301       .241       .191       .150       .116       .089       .067       .050         6       .935       .889       .881       .762       .686       .606       .527       .450       .378       .313       .256       .207       .165       .130       .102 <td< th=""><th></th><th>1.00</th><th>1.00</th><th>1.00</th><th>1.00</th><th>1.00</th><th>1.00</th><th></th><th></th><th>1.00</th><th>1.00</th><th>1.00</th><th>1.00</th><th>1.00</th><th>1.00</th><th>1.00</th></td<>   |  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |   |   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00   | 1.00   |
| 1       .136       .092       .061       .040       .027       .017       .011       .007       .005       .003       .002       .001       .001       .000       .000         2       .321       .238       .174       .125       .088       .062       .043       .030       .020       .014       .009       .006       .004       .003       .002         3       .537       .433       .342       .265       .202       .151       .112       .082       .059       .042       .030       .021       .015       .010       .007         4       .725       .629       .532       .440       .358       .285       .224       .173       .132       .100       .074       .055       .040       .029       .021         5       .858       .785       .703       .616       .529       .446       .369       .301       .241       .191       .150       .116       .089       .067       .050         6       .935       .889       .881       .762       .686       .606       .527       .450       .378       .313       .256       .207       .165       .130       .102 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>λ</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>  |  |   |   |   |   |   |   | λ   |   |   |   |   |   |  |  |  |
| 2       .321       .238       .174       .125       .088       .062       .043       .030       .020       .014       .009       .006       .004       .003       .002         3       .537       .433       .342       .265       .202       .151       .112       .082       .059       .042       .030       .021       .015       .010       .007         4       .725       .629       .532       .440       .358       .224       .173       .132       .100       .074       .055       .040       .029       .021         5       .858       .785       .703       .616       .529       .446       .369       .301       .241       .191       .150       .116       .089       .067       .050         6       .935       .889       .831       .762       .686       .606       .527       .450       .378       .313       .256       .207       .165       .130       .102         7       .973       .949       .913       .867       .809       .744       .673       .599       .525       .453       .386       .324       .269       .220       .179         8       .9   | x  | 3.5   | 4.0   | 4.5   | 5.0   | 5.5   | 6.0   | $\lambda$ 6.5   | 7.0   | 7.5   | 8.0   | 8.5   | 9.0   | 9.5  | 10.0   | 10.5   |
| 3       .537       .433       .342       .265       .202       .151       .112       .082       .059       .042       .030       .021       .015       .010       .007         4       .725       .629       .532       .440       .358       .285       .224       .173       .132       .100       .074       .055       .040       .029       .021         5       .858       .785       .703       .616       .529       .446       .369       .301       .241       .191       .150       .116       .089       .067       .050         6       .935       .889       .831       .762       .686       .606       .527       .450       .378       .313       .256       .207       .165       .130       .102         7       .973       .949       .913       .867       .809       .744       .673       .599       .525       .453       .386       .324       .269       .220       .179         8       .990       .979       .960       .932       .894       .847       .792       .729       .662       .593       .523       .456       .392       .333       .279 <td< th=""><th><math>-\frac{x}{0}</math></th><th>3.5</th><th>4.0</th><th>4.5</th><th>5.0</th><th>5.5</th><th>6.0</th><th><math>\lambda</math> <math>6.5</math> <math>.002</math></th><th>7.0</th><th>7.5</th><th>8.0</th><th>8.5</th><th>9.0</th><th>9.5</th><th>10.0</th><th>10.5</th></td<>   | $-\frac{x}{0}$   | 3.5   | 4.0   | 4.5   | 5.0   | 5.5   | 6.0   | $\lambda$ $6.5$ $.002$  | 7.0   | 7.5   | 8.0   | 8.5   | 9.0   | 9.5  | 10.0   | 10.5   |
| 4       .725       .629       .532       .440       .358       .285       .224       .173       .132       .100       .074       .055       .040       .029       .021         5       .858       .785       .703       .616       .529       .446       .369       .301       .241       .191       .150       .116       .089       .067       .050         6       .935       .889       .831       .762       .686       .606       .527       .450       .378       .313       .256       .207       .165       .130       .102         7       .973       .949       .913       .867       .809       .744       .673       .599       .525       .453       .386       .324       .269       .220       .179         8       .990       .979       .960       .932       .894       .847       .792       .729       .662       .593       .523       .456       .392       .333       .279         9       .997       .992       .983       .986       .975       .957       .933       .901       .862       .816       .763       .706       .645       .583       .521 <td< th=""><th><math>\begin{bmatrix} x \\ 0 \\ 1 \end{bmatrix}</math></th><th>3.5<br/>.030<br/>.136</th><th>4.0<br/>.018<br/>.092</th><th>4.5<br/>.011<br/>.061</th><th>5.0<br/>.007<br/>.040</th><th>5.5<br/>.004<br/>.027</th><th>6.0<br/>.002<br/>.017</th><th><math>\lambda</math> 6.5 .002 .011</th><th>7.0<br/>.001<br/>.007</th><th>7.5<br/>.001<br/>.005</th><th>8.0<br/>.000<br/>.003</th><th>8.5<br/>.000<br/>.002</th><th>9.0<br/>.000<br/>.001</th><th>9.5<br/>.000<br/>.001</th><th>.000</th><th>.000<br/>.000</th></td<>  | $\begin{bmatrix} x \\ 0 \\ 1 \end{bmatrix}$  | 3.5<br>.030<br>.136   | 4.0<br>.018<br>.092   | 4.5<br>.011<br>.061   | 5.0<br>.007<br>.040   | 5.5<br>.004<br>.027   | 6.0<br>.002<br>.017   | $\lambda$ 6.5 .002 .011   | 7.0<br>.001<br>.007   | 7.5<br>.001<br>.005   | 8.0<br>.000<br>.003   | 8.5<br>.000<br>.002   | 9.0<br>.000<br>.001   | 9.5<br>.000<br>.001  | .000   | .000<br>.000   |
| 5       .858       .785       .703       .616       .529       .446       .369       .301       .241       .191       .150       .116       .089       .067       .050         6       .935       .889       .831       .762       .686       .606       .527       .450       .378       .313       .256       .207       .165       .130       .102         7       .973       .949       .913       .867       .809       .744       .673       .599       .525       .453       .386       .324       .269       .220       .179         8       .990       .979       .960       .932       .894       .847       .792       .729       .662       .593       .523       .456       .392       .333       .279         9       .997       .992       .983       .968       .946       .916       .877       .830       .776       .717       .653       .587       .522       .458       .397         10       .999       .998       .995       .989       .980       .966       .947       .921       .888       .849       .803       .752       .697       .639         12  | $\begin{bmatrix} x \\ 0 \\ 1 \\ 2 \end{bmatrix}$   | 3.5<br>.030<br>.136<br>.321   | 4.0<br>.018<br>.092<br>.238   | 4.5<br>.011<br>.061<br>.174   | 5.0<br>.007<br>.040<br>.125   | 5.5<br>.004<br>.027<br>.088   | 6.0<br>.002<br>.017<br>.062   | $\lambda$ 6.5 .002 .011 .043  | 7.0<br>.001<br>.007<br>.030   | 7.5<br>.001<br>.005<br>.020   | 8.0<br>.000<br>.003<br>.014   | 8.5<br>.000<br>.002<br>.009   | 9.0<br>.000<br>.001<br>.006   | 9.5<br>.000<br>.001<br>.004  | 10.0<br>.000<br>.000<br>.003   | 10.5<br>.000<br>.000<br>.002   |
| 7         .973         .949         .913         .867         .809         .744         .673         .599         .525         .453         .386         .324         .269         .220         .179           8         .990         .979         .960         .932         .894         .847         .792         .729         .662         .593         .523         .456         .392         .333         .279           9         .997         .992         .983         .968         .946         .916         .877         .830         .776         .717         .653         .587         .522         .458         .397           10         .999         .997         .993         .986         .975         .933         .901         .862         .816         .763         .706         .645         .583         .521           11         1.00         .999         .998         .996         .991         .984         .973         .957         .936         .999         .876         .836         .792         .742           13         1.00         1.00         1.00         .999         .998         .996         .993         .987         .978         .966 <th><math display="block"> \begin{array}{c} x \\ 0 \\ 1 \\ 2 \\ 3 \end{array} </math></th> <th>3.5<br/>.030<br/>.136<br/>.321<br/>.537</th> <th>4.0<br/>.018<br/>.092<br/>.238<br/>.433</th> <th>4.5<br/>.011<br/>.061<br/>.174<br/>.342</th> <th>5.0<br/>.007<br/>.040<br/>.125<br/>.265</th> <th>5.5<br/>.004<br/>.027<br/>.088<br/>.202</th> <th>6.0<br/>.002<br/>.017<br/>.062<br/>.151</th> <th><math>\lambda</math> 6.5 .002 .011 .043 .112</th> <th>7.0<br/>.001<br/>.007<br/>.030<br/>.082</th> <th>7.5<br/>.001<br/>.005<br/>.020<br/>.059</th> <th>8.0<br/>.000<br/>.003<br/>.014<br/>.042</th> <th>8.5<br/>.000<br/>.002<br/>.009<br/>.030</th> <th>9.0<br/>.000<br/>.001<br/>.006<br/>.021</th> <th>9.5<br/>.000<br/>.001<br/>.004<br/>.015</th> <th>10.0<br/>.000<br/>.000<br/>.003<br/>.010</th> <th>10.5<br/>.000<br/>.000<br/>.002<br/>.007</th>  | $ \begin{array}{c} x \\ 0 \\ 1 \\ 2 \\ 3 \end{array} $   | 3.5<br>.030<br>.136<br>.321<br>.537   | 4.0<br>.018<br>.092<br>.238<br>.433   | 4.5<br>.011<br>.061<br>.174<br>.342   | 5.0<br>.007<br>.040<br>.125<br>.265   | 5.5<br>.004<br>.027<br>.088<br>.202   | 6.0<br>.002<br>.017<br>.062<br>.151   | $\lambda$ 6.5 .002 .011 .043 .112   | 7.0<br>.001<br>.007<br>.030<br>.082   | 7.5<br>.001<br>.005<br>.020<br>.059   | 8.0<br>.000<br>.003<br>.014<br>.042   | 8.5<br>.000<br>.002<br>.009<br>.030   | 9.0<br>.000<br>.001<br>.006<br>.021   | 9.5<br>.000<br>.001<br>.004<br>.015  | 10.0<br>.000<br>.000<br>.003<br>.010   | 10.5<br>.000<br>.000<br>.002<br>.007   |
| 7         .973         .949         .913         .867         .809         .744         .673         .599         .525         .453         .386         .324         .269         .220         .179           8         .990         .979         .960         .932         .894         .847         .792         .729         .662         .593         .523         .456         .392         .333         .279           9         .997         .992         .983         .968         .946         .916         .877         .830         .776         .717         .653         .587         .522         .458         .397           10         .999         .997         .993         .986         .975         .933         .901         .862         .816         .763         .706         .645         .583         .521           11         1.00         .999         .998         .996         .991         .984         .973         .957         .936         .999         .876         .836         .792         .742           13         1.00         1.00         1.00         .999         .998         .996         .993         .987         .978         .966 <th><math>\begin{array}{c} x \\ \hline 0 \\ 1 \\ 2 \\ 3 \\ 4 \end{array}</math></th> <th>3.5<br/>.030<br/>.136<br/>.321<br/>.537<br/>.725</th> <th>4.0<br/>.018<br/>.092<br/>.238<br/>.433<br/>.629</th> <th>4.5<br/>.011<br/>.061<br/>.174<br/>.342<br/>.532</th> <th>5.0<br/>.007<br/>.040<br/>.125<br/>.265<br/>.440</th> <th>5.5<br/>.004<br/>.027<br/>.088<br/>.202<br/>.358</th> <th>6.0<br/>.002<br/>.017<br/>.062<br/>.151<br/>.285</th> <th><math>\lambda</math> 6.5  .002 .011 .043 .112 .224</th> <th>7.0<br/>.001<br/>.007<br/>.030<br/>.082<br/>.173</th> <th>7.5<br/>.001<br/>.005<br/>.020<br/>.059<br/>.132</th> <th>8.0<br/>.000<br/>.003<br/>.014<br/>.042<br/>.100</th> <th>8.5<br/>.000<br/>.002<br/>.009<br/>.030<br/>.074</th> <th>9.0<br/>.000<br/>.001<br/>.006<br/>.021<br/>.055</th> <th>9.5<br/>.000<br/>.001<br/>.004<br/>.015<br/>.040</th> <th>.000<br/>.000<br/>.003<br/>.010<br/>.029</th> <th>10.5<br/>.000<br/>.000<br/>.002<br/>.007<br/>.021</th>   | $\begin{array}{c} x \\ \hline 0 \\ 1 \\ 2 \\ 3 \\ 4 \end{array}$   | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725   | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629   | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532   | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440   | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358   | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285   | $\lambda$ 6.5  .002 .011 .043 .112 .224   | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173   | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132   | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100   | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074   | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055   | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040  | .000<br>.000<br>.003<br>.010<br>.029   | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021   |
| 8       .990       .979       .960       .932       .894       .847       .792       .729       .662       .593       .523       .456       .392       .333       .279         9       .997       .992       .983       .968       .946       .916       .877       .830       .776       .717       .653       .587       .522       .458       .397         10       .999       .997       .993       .986       .975       .933       .901       .862       .816       .763       .706       .645       .583       .521         11       1.00       .999       .998       .995       .989       .980       .966       .947       .921       .888       .849       .803       .752       .697       .639         12       1.00       1.00       .999       .998       .996       .991       .984       .973       .957       .936       .909       .876       .836       .792       .742         13       1.00       1.00       1.00       .999       .998       .996       .993       .987       .978       .966       .949       .926       .898       .864       .825         14       <   | x 0 1 2 3 4 5  | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858   | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785   | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703   | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616   | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529   | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446   | $\lambda$ 6.5 .002 .011 .043 .112 .224 .369   | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301   | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241   | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100   | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074   | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055<br>.116   | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040  | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067   | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021   |
| 9         .997         .992         .983         .968         .946         .916         .877         .830         .776         .717         .653         .587         .522         .458         .397           10         .999         .997         .993         .986         .975         .933         .901         .862         .816         .763         .706         .645         .583         .521           11         1.00         .999         .998         .995         .989         .980         .966         .947         .921         .888         .849         .803         .752         .697         .639           12         1.00         1.00         .999         .998         .996         .991         .984         .973         .957         .936         .909         .876         .836         .792         .742           13         1.00         1.00         1.00         .999         .998         .996         .993         .987         .978         .966         .949         .926         .898         .864         .825           14         1.00         1.00         1.00         .999         .999         .998         .995         .992         .986<  | $\begin{bmatrix} x \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \end{bmatrix}$   | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858   | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785   | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703   | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616   | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529   | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446   | $\lambda$ 6.5 .002 .011 .043 .112 .224 .369   | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301   | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241   | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191   | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150   | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055<br>.116   | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089  | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067   | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050   |
| 10       .999       .997       .993       .986       .975       .937       .933       .901       .862       .816       .763       .706       .645       .583       .521         11       1.00       .999       .998       .995       .989       .980       .966       .947       .921       .888       .849       .803       .752       .697       .639         12       1.00       1.00       .999       .998       .991       .984       .973       .957       .936       .909       .876       .836       .792       .742         13       1.00       1.00       1.00       .999       .998       .993       .987       .978       .966       .949       .926       .898       .864       .825         14       1.00       1.00       1.00       .999       .999       .997       .994       .990       .983       .973       .959       .940       .917       .888         15       1.00       1.00       1.00       1.00       .999       .999       .998       .995       .992       .986       .978       .967       .951       .932         16       1.00       1.00       1.00   | $\begin{bmatrix} x \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \end{bmatrix}$  | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935   | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785   | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913   | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867   | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809   | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446   | $\lambda$ 6.5 .002 .011 .043 .112 .224 .369 .527 .673   | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450   | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525   | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453   | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150   | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055<br>.116<br>.207   | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089  | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220   | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.179   |
| 11       1.00       .999       .998       .995       .989       .980       .966       .947       .921       .888       .849       .803       .752       .697       .639         12       1.00       1.00       .999       .998       .996       .991       .984       .973       .957       .936       .909       .876       .836       .792       .742         13       1.00       1.00       1.00       .999       .998       .996       .993       .987       .978       .966       .949       .926       .898       .864       .825         14       1.00       1.00       1.00       .999       .999       .997       .994       .990       .988       .864       .825         14       1.00       1.00       1.00       1.00       .999       .999       .998       .995       .992       .986       .973       .959       .940       .917       .888         15       1.00       1.00       1.00       1.00       .999       .998       .995       .992       .986       .978       .967       .951       .932         16       1.00       1.00       1.00       1.00       1.00   | $\begin{bmatrix} x \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \end{bmatrix}$   | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.973   | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.949   | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913   | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867<br>.932   | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809<br>.894   | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744   | $\lambda$ 6.5 .002 .011 .043 .112 .224 .369 .527 .673 .792  | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.729   | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662   | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453<br>.593   | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386   | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055<br>.116<br>.207<br>.324<br>.456   | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.165<br>.269<br>.392  | 10.0<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333   | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.179<br>.279   |
| 12       1.00       1.00       .999       .998       .996       .991       .984       .973       .957       .936       .909       .876       .836       .792       .742         13       1.00       1.00       1.00       .999       .998       .996       .993       .987       .978       .966       .949       .926       .898       .864       .825         14       1.00       1.00       1.00       .999       .999       .994       .990       .983       .973       .959       .940       .917       .888         15       1.00       1.00       1.00       1.00       1.00       .999       .999       .998       .995       .992       .986       .978       .967       .951       .932         16       1.00       1.00       1.00       1.00       1.00       1.00       .999       .999       .998       .996       .993       .982       .973       .960         17       1.00       1.00       1.00       1.00       1.00       1.00       .999       .999       .999       .999       .999       .999       .999       .999       .999       .999       .999       .999       .999  | $ \begin{array}{c} x \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \end{array} $   | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.973<br>.990   | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.949<br>.979   | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913<br>.960<br>.983   | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867<br>.932<br>.968   | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809<br>.894   | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847   | $\begin{array}{c} \lambda \\ 6.5 \\ 0.02 \\ 0.011 \\ 0.043 \\ 0.012 \\ 0.043 $ | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.729<br>.830   | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662<br>.776   | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453<br>.593<br>.717   | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.653   | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055<br>.116<br>.207<br>.324<br>.456<br>.587   | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.165<br>.269<br>.392<br>.522                                  | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333<br>.458   | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.179<br>.279<br>.397   |
| 13     1.00     1.00     1.00     999     .998     .996     .993     .987     .978     .966     .949     .926     .898     .864     .825       14     1.00     1.00     1.00     1.00     .999     .999     .997     .994     .990     .983     .973     .959     .940     .917     .888       15     1.00     1.00     1.00     1.00     1.00     .999     .998     .995     .992     .986     .978     .967     .951     .932       16     1.00     1.00     1.00     1.00     1.00     .999     .998     .996     .993     .989     .982     .973     .960       17     1.00     1.00     1.00     1.00     1.00     1.00     .999     .998     .996     .993     .989     .982     .973     .960       17     1.00     1.00     1.00     1.00     1.00     1.00     .999     .998     .997     .995     .991     .988     .978       18     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00   | $ \begin{array}{c} x \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \end{array} $   | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.973<br>.990   | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.949<br>.979   | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913<br>.960<br>.983   | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867<br>.932<br>.968   | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809<br>.894   | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847   | $\begin{array}{c} \lambda \\ 6.5 \\ 0.02 \\ 0.011 \\ 0.043 \\ 0.012 \\ 0.043 $ | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.729<br>.830   | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662<br>.776   | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453<br>.593<br>.717   | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.653   | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055<br>.116<br>.207<br>.324<br>.456<br>.587   | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.165<br>.269<br>.392<br>.522                                  | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333<br>.458   | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.179<br>.279<br>.397   |
| 14     1.00     1.00     1.00     1.00     999     .999     .997     .994     .990     .983     .973     .959     .940     .917     .888       15     1.00     1.00     1.00     1.00     1.00     1.00     1.999     .999     .998     .995     .992     .986     .978     .967     .951     .932       16     1.00     1.00     1.00     1.00     1.00     .999     .998     .996     .993     .989     .982     .973     .960       17     1.00     1.00     1.00     1.00     1.00     .999     .998     .997     .995     .991     .986     .978       18     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     .999     .999     .999     .999     .998     .997     .995     .991     .988       19     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     .999     .999     .999     .999     .999     .998     .997     .998     .997     .998  | x 0 1 2 3 4 5 6 7 8 9 10   | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.973<br>.999   | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.949<br>.979<br>.992   | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913<br>.960<br>.983<br>.993                                 | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867<br>.932<br>.968<br>.986   | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809<br>.894<br>.946<br>.975                         | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847<br>.916   | $\lambda$ 6.5 .002 .011 .043 .112 .224 .369 .527 .673 .792 .877 .933  | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.729<br>.830<br>.901   | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662<br>.776<br>.862   | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453<br>.593<br>.717<br>.816   | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.653<br>.763   | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055<br>.116<br>.207<br>.324<br>.456<br>.587<br>.706   | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.165<br>.269<br>.392<br>.522<br>.645                          | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333<br>.458<br>.583   | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.179<br>.279<br>.397<br>.521                                 |
| 15     1.00     1.00     1.00     1.00     1.00     1.00     1.999     .999     .998     .995     .992     .986     .978     .967     .951     .932       16     1.00     1.00     1.00     1.00     1.00     1.00     999     .998     .996     .993     .989     .982     .973     .960       17     1.00     1.00     1.00     1.00     1.00     1.00     .999     .998     .997     .995     .991     .986     .978       18     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     999     .999     .999     .998     .996     .993     .989     .996     .993     .998     .997     .995     .991     .986     .973     .960       18     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     999     .999     .999     .998     .996     .993     .988     .997     .994       19     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00 </th <th><math display="block"> \begin{array}{c} x \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \end{array} </math></th> <th>3.5<br/>.030<br/>.136<br/>.321<br/>.537<br/>.725<br/>.858<br/>.935<br/>.973<br/>.990<br/>.997<br/>.999</th> <th>4.0<br/>.018<br/>.092<br/>.238<br/>.433<br/>.629<br/>.785<br/>.889<br/>.949<br/>.979<br/>.992</th> <th>4.5<br/>.011<br/>.061<br/>.174<br/>.342<br/>.532<br/>.703<br/>.831<br/>.913<br/>.960<br/>.983<br/>.993</th> <th>5.0<br/>.007<br/>.040<br/>.125<br/>.265<br/>.440<br/>.616<br/>.762<br/>.867<br/>.932<br/>.968<br/>.986</th> <th>5.5<br/>.004<br/>.027<br/>.088<br/>.202<br/>.358<br/>.529<br/>.686<br/>.809<br/>.894<br/>.946<br/>.975</th> <th>6.0<br/>.002<br/>.017<br/>.062<br/>.151<br/>.285<br/>.446<br/>.606<br/>.744<br/>.847<br/>.916<br/>.957</th> <th><math>\lambda</math> 6.5 .002 .011 .043 .112 .224 .369 .527 .673 .792 .877 .933</th> <th>7.0<br/>.001<br/>.007<br/>.030<br/>.082<br/>.173<br/>.301<br/>.450<br/>.599<br/>.729<br/>.830<br/>.901</th> <th>7.5<br/>.001<br/>.005<br/>.020<br/>.059<br/>.132<br/>.241<br/>.378<br/>.525<br/>.662<br/>.776<br/>.862</th> <th>8.0<br/>.000<br/>.003<br/>.014<br/>.042<br/>.100<br/>.191<br/>.313<br/>.453<br/>.593<br/>.717<br/>.816</th> <th>8.5<br/>.000<br/>.002<br/>.009<br/>.030<br/>.074<br/>.150<br/>.256<br/>.386<br/>.523<br/>.653<br/>.763</th> <th>9.0<br/>.000<br/>.001<br/>.006<br/>.021<br/>.055<br/>.116<br/>.207<br/>.324<br/>.456<br/>.587<br/>.706</th> <th>9.5<br/>.000<br/>.001<br/>.004<br/>.015<br/>.040<br/>.089<br/>.165<br/>.269<br/>.392<br/>.522<br/>.645</th> <th>10.0<br/>.000<br/>.000<br/>.003<br/>.010<br/>.029<br/>.067<br/>.130<br/>.220<br/>.333<br/>.458<br/>.583</th> <th>10.5<br/>.000<br/>.000<br/>.002<br/>.007<br/>.021<br/>.050<br/>.102<br/>.179<br/>.279<br/>.397<br/>.521</th> | $ \begin{array}{c} x \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \end{array} $   | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.973<br>.990<br>.997<br>.999                                 | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.949<br>.979<br>.992   | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913<br>.960<br>.983<br>.993                                 | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867<br>.932<br>.968<br>.986   | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809<br>.894<br>.946<br>.975                         | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847<br>.916<br>.957   | $\lambda$ 6.5 .002 .011 .043 .112 .224 .369 .527 .673 .792 .877 .933  | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.729<br>.830<br>.901   | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662<br>.776<br>.862   | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453<br>.593<br>.717<br>.816   | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.653<br>.763   | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055<br>.116<br>.207<br>.324<br>.456<br>.587<br>.706   | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.165<br>.269<br>.392<br>.522<br>.645                          | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333<br>.458<br>.583   | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.179<br>.279<br>.397<br>.521                                 |
| 16 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.  | $ \begin{array}{c} x \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{array} $ $ \begin{array}{c} 6 \\ 7 \\ 8 \\ 9 \\ 10 \end{array} $ $ \begin{array}{c} 11 \\ 12 \end{array} $ | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.990<br>.997<br>.999<br>1.00<br>1.00                         | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.949<br>.979<br>.992<br>.997                                 | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913<br>.983<br>.993<br>.999                                 | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867<br>.932<br>.968<br>.986   | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809<br>.894<br>.946<br>.975                         | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847<br>.916<br>.957   | $\begin{array}{c} \lambda \\ 6.5 \\ 0.002 \\ 0.011 \\ .043 \\ .112 \\ .224 \\ .369 \\ .527 \\ .673 \\ .792 \\ .877 \\ .933 \\ .966 \\ .984 \end{array}$   | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.729<br>.830<br>.901   | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662<br>.776<br>.862<br>.921<br>.957                         | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453<br>.593<br>.717<br>.816   | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.653<br>.763   | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055<br>.116<br>.207<br>.324<br>.456<br>.587<br>.706   | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.165<br>.269<br>.392<br>.522<br>.645<br>.752<br>.836          | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333<br>.458<br>.583   | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.179<br>.279<br>.397<br>.521<br>.639<br>.742                 |
| 17     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.999     .998     .997     .995     .991     .986     .978       18     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.999     .999     .999     .998     .996     .993     .988       19     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     999     .999     .999     .999     .998     .997     .994  | $\begin{array}{c} x \\ \hline \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ \end{array}$                                      | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.997<br>.999<br>1.00<br>1.00<br>1.00                         | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.979<br>.997<br>.999<br>1.00<br>1.00                         | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913<br>.998<br>.998<br>.998<br>.998<br>.999<br>1.00         | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867<br>.932<br>.988<br>.988<br>.998<br>.999<br>1.00                 | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809<br>.946<br>.975<br>.989<br>.999                 | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847<br>.916<br>.957   | λ<br>6.5<br>.002<br>.011<br>.043<br>.112<br>.224<br>.369<br>.527<br>.673<br>.792<br>.877<br>.933<br>.966<br>.984<br>.993<br>.997  | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.830<br>.901<br>.947<br>.973<br>.987                         | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662<br>.862<br>.921<br>.957<br>.978<br>.990                 | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453<br>.593<br>.717<br>.816<br>.888<br>.986<br>.983                         | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.653<br>.763<br>.849<br>.909<br>.949                 | 9.0<br>.000<br>.001<br>.005<br>.116<br>.207<br>.324<br>.456<br>.587<br>.706<br>.803<br>.876<br>.926<br>.959                         | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.165<br>.269<br>.392<br>.645<br>.752<br>.836<br>.838<br>.940  | 10.0<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333<br>.458<br>.583<br>.697<br>.792<br>.864<br>.917                 | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.279<br>.521<br>.639<br>.742<br>.825<br>.888                 |
| 17     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.999     .998     .997     .995     .991     .986     .978       18     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.999     .999     .999     .998     .996     .993     .988       19     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     999     .999     .999     .999     .998     .997     .994  | $\begin{array}{c} x \\ \hline \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ \end{array}$                                      | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.997<br>.999<br>1.00<br>1.00<br>1.00                         | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.979<br>.997<br>.999<br>1.00<br>1.00                         | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913<br>.998<br>.998<br>.998<br>.998<br>.999<br>1.00         | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867<br>.932<br>.988<br>.988<br>.998<br>.999<br>1.00                 | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809<br>.946<br>.975<br>.989<br>.999                 | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847<br>.916<br>.957   | λ<br>6.5<br>.002<br>.011<br>.043<br>.112<br>.224<br>.369<br>.527<br>.673<br>.792<br>.877<br>.933<br>.966<br>.984<br>.993<br>.997  | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.830<br>.901<br>.947<br>.973<br>.987                         | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662<br>.862<br>.921<br>.957<br>.978<br>.990                 | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453<br>.593<br>.717<br>.816<br>.888<br>.986<br>.983                         | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.653<br>.763<br>.849<br>.909<br>.949                 | 9.0<br>.000<br>.001<br>.005<br>.116<br>.207<br>.324<br>.456<br>.587<br>.706<br>.803<br>.876<br>.926<br>.959                         | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.165<br>.269<br>.392<br>.645<br>.752<br>.836<br>.838<br>.940  | 10.0<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333<br>.458<br>.583<br>.697<br>.792<br>.864<br>.917                 | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.279<br>.521<br>.639<br>.742<br>.825<br>.888                 |
| 18     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.00     1.99     .999     .998     .996     .993     .988       19     1.00     1.  | $\begin{array}{c} x \\ \hline \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ \end{array}$                          | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.997<br>.999<br>1.00<br>1.00<br>1.00<br>1.00                 | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.949<br>.979<br>.997<br>.999<br>1.00<br>1.00<br>1.00         | 4.5<br>.011<br>.061<br>.174<br>.342<br>.703<br>.831<br>.913<br>.998<br>.999<br>1.00<br>1.00                                 | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.932<br>.968<br>.986<br>.995<br>.998<br>.999<br>1.00                 | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.975<br>.989<br>.996<br>.998<br>.999<br>1.00         | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847<br>.916<br>.957<br>.980<br>.991<br>.996<br>.999         | $\begin{array}{c} \lambda \\ 6.5 \\ .002 \\ .011 \\ .043 \\ .112 \\ .224 \\ .369 \\ .527 \\ .673 \\ .792 \\ .877 \\ .933 \\ .966 \\ .984 \\ .993 \\ .997 \\ .999 \\ \end{array}$  | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.729<br>.830<br>.901<br>.947<br>.973<br>.987<br>.994         | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662<br>.776<br>.862<br>.921<br>.957<br>.998<br>.995         | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.593<br>.717<br>.816<br>.888<br>.936<br>.966<br>.983<br>.992                 | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.653<br>.763<br>.849<br>.909<br>.949<br>.973<br>.986 | 9.0<br>.000<br>.001<br>.005<br>.015<br>.055<br>.116<br>.207<br>.324<br>.456<br>.587<br>.706<br>.803<br>.876<br>.926<br>.959<br>.978 | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.392<br>.522<br>.645<br>.752<br>.836<br>.898<br>.940<br>.967  | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333<br>.458<br>.583<br>.697<br>.792<br>.864<br>.917<br>.951 | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.279<br>.397<br>.521<br>.639<br>.742<br>.825<br>.888<br>.932 |
| 19   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.99  | x 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16   | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.990<br>.997<br>.999<br>1.00<br>1.00<br>1.00<br>1.00         | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.949<br>.999<br>.997<br>.999<br>1.00<br>1.00<br>1.00         | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913<br>.983<br>.993<br>.998<br>.999<br>1.00<br>1.00<br>1.00 | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.932<br>.968<br>.986<br>.995<br>.999<br>1.00<br>1.00                         | 5.5<br>.004<br>.027<br>.088<br>.202<br>.686<br>.529<br>.894<br>.946<br>.975<br>.989<br>.998<br>.998<br>.999<br>1.00 | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847<br>.916<br>.957<br>.980<br>.991<br>.996<br>.999<br>.999 | $\begin{array}{c} \lambda \\ 6.5 \\ .002 \\ .011 \\ .043 \\ .112 \\ .224 \\ .369 \\ .527 \\ .673 \\ .792 \\ .877 \\ .933 \\ .996 \\ .984 \\ .993 \\ .997 \\ .999 \\ 1.00 \\ \end{array}$  | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.830<br>.901<br>.947<br>.973<br>.987<br>.998                 | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662<br>.776<br>.862<br>.921<br>.957<br>.998                 | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453<br>.593<br>.717<br>.816<br>.888<br>.936<br>.983<br>.992                 | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.763<br>.849<br>.909<br>.949<br>.973<br>.986         | 9.0<br>.000<br>.001<br>.005<br>.021<br>.055<br>.116<br>.207<br>.324<br>.456<br>.587<br>.706<br>.803<br>.876<br>.926<br>.959<br>.978 | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.5269<br>.392<br>.645<br>.752<br>.836<br>.898<br>.940<br>.967 | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333<br>.458<br>.583<br>.697<br>.792<br>.864<br>.917<br>.951 | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.279<br>.397<br>.521<br>.639<br>.742<br>.825<br>.888<br>.932 |
|   | x 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17  | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.999<br>.997<br>.999<br>1.00<br>1.00<br>1.00<br>1.00         | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.949<br>.997<br>.992<br>.997<br>1.00<br>1.00<br>1.00<br>1.00 | 4.5<br>.011<br>.061<br>.174<br>.342<br>.532<br>.703<br>.831<br>.913<br>.960<br>.983<br>.999<br>.999<br>1.00<br>1.00<br>1.00 | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867<br>.932<br>.968<br>.995<br>.998<br>1.00<br>1.00                 | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809<br>.894<br>.975<br>.989<br>.996<br>.999<br>1.00 | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847<br>.916<br>.957<br>.980<br>.991<br>.999<br>.999<br>.999 | $\begin{array}{c} \lambda \\ 6.5 \\ 0.002 \\ .011 \\ .043 \\ .112 \\ .224 \\ .369 \\ .527 \\ .673 \\ .792 \\ .877 \\ .933 \\ .996 \\ .993 \\ .997 \\ .999 \\ 1.00 \\ 1.00 \\ 1.00 \\ \end{array}$   | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.729<br>.830<br>.901<br>.947<br>.994<br>.998                 | 7.5 .001 .005 .020 .059 .132 .241 .378 .525 .662 .976 .862 .921 .978 .999 .995  | 8.0<br>.000<br>.003<br>.014<br>.042<br>.100<br>.191<br>.313<br>.453<br>.593<br>.717<br>.816<br>.888<br>.986<br>.983<br>.992<br>.996<br>.998 | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.763<br>.849<br>.909<br>.949<br>.973<br>.986<br>.993 | 9.0<br>.000<br>.001<br>.005<br>.011<br>.055<br>.116<br>.207<br>.324<br>.456<br>.987<br>.706<br>.926<br>.959<br>.978                 | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.165<br>.269<br>.392<br>.645<br>.752<br>.645<br>.940<br>.967  | 10.0<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.3458<br>.583<br>.697<br>.792<br>.864<br>.917<br>.951                | 10.5<br>.000<br>.000<br>.002<br>.007<br>.021<br>.050<br>.102<br>.279<br>.521<br>.639<br>.742<br>.825<br>.888<br>.932         |
| 20   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.99  | x 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18   | 3.5<br>.030<br>.136<br>.321<br>.537<br>.725<br>.858<br>.935<br>.999<br>.997<br>.999<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00 | 4.0<br>.018<br>.092<br>.238<br>.433<br>.629<br>.785<br>.889<br>.949<br>.997<br>.999<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00 | 4.5<br>.011<br>.061<br>.174<br>.342<br>.703<br>.831<br>.913<br>.960<br>.983<br>.999<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00 | 5.0<br>.007<br>.040<br>.125<br>.265<br>.440<br>.616<br>.762<br>.867<br>.932<br>.968<br>.995<br>.998<br>.999<br>1.00<br>1.00<br>1.00 | 5.5<br>.004<br>.027<br>.088<br>.202<br>.358<br>.529<br>.686<br>.809<br>.894<br>.975<br>.989<br>.998<br>.999<br>1.00 | 6.0<br>.002<br>.017<br>.062<br>.151<br>.285<br>.446<br>.606<br>.744<br>.847<br>.916<br>.957<br>.980<br>.991<br>.999<br>.999         | $\begin{array}{c} \lambda \\ 6.5 \\ .002 \\ .011 \\ .043 \\ .112 \\ .224 \\ .369 \\ .527 \\ .673 \\ .792 \\ .877 \\ .933 \\ .966 \\ .984 \\ .993 \\ .997 \\ .999 \\ 1.00 \\ 1.00 \\ 1.00 \\ 1.00 \\ \end{array}$  | 7.0<br>.001<br>.007<br>.030<br>.082<br>.173<br>.301<br>.450<br>.599<br>.729<br>.830<br>.901<br>.947<br>.973<br>.987<br>.994<br>.998 | 7.5<br>.001<br>.005<br>.020<br>.059<br>.132<br>.241<br>.378<br>.525<br>.662<br>.776<br>.862<br>.921<br>.957<br>.978<br>.990<br>.995 | 8.0<br>.000<br>.003<br>.014<br>.042<br>.190<br>.191<br>.313<br>.453<br>.593<br>.717<br>.816<br>.888<br>.936<br>.966<br>.998<br>.999         | 8.5<br>.000<br>.002<br>.009<br>.030<br>.074<br>.150<br>.256<br>.386<br>.523<br>.653<br>.763<br>.849<br>.909<br>.949<br>.973<br>.986 | 9.0<br>.000<br>.001<br>.006<br>.021<br>.055<br>.116<br>.207<br>.324<br>.456<br>.587<br>.706<br>.803<br>.876<br>.926<br>.929<br>.978 | 9.5<br>.000<br>.001<br>.004<br>.015<br>.040<br>.089<br>.392<br>.522<br>.645<br>.752<br>.836<br>.898<br>.940<br>.967  | 10.0<br>.000<br>.000<br>.003<br>.010<br>.029<br>.067<br>.130<br>.220<br>.333<br>.458<br>.583<br>.697<br>.792<br>.864<br>.917<br>.951 | 10.5<br>.000<br>.000<br>.002<br>.007<br>.050<br>.102<br>.179<br>.279<br>.397<br>.521<br>.639<br>.742<br>.825<br>.932         |

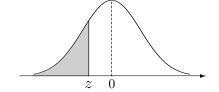
Table A3, continued. Poisson distribution

|                 |                |              |              |              |              |              | λ            |              |              |              |              |              |              |             |              |
|-----------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|
| x               | 11             | 12           | 13           | 14           | 15           | 16           | 17           | 18           | 19           | 20           | 22           | 24           | 26           | 28          | 30           |
| 0               | .000           | .000         | .000         | .000         | .000         | .000         | .000         | 000          | .000         | .000         | .000         | .000         | .000         | .000        | .000         |
| 1               | .000           | .000         |              | .000         |              | .000         | .000         |              | .000         |              |              | .000         | .000         | .000        | .000         |
| 2               | .001           | .001         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000        | .000         |
| 3               | .005           | .002         | .001         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000        | .000         |
| 4               | .015           | .008         |              | .002         | .001         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000         | .000        | .000         |
| 5               | .038           | .020         | .011         | .006         | .003         | .001         | .001         | .000         | .000         | .000         | .000         | .000         | .000         | .000        | .000         |
| 6               | .079           | .046         | .026         | .014         | .008         | .004         | .002         | .001         | .001         | .000         | .000         | .000         | .000         | .000        | .000         |
| 7               | .143           | .090         | .054         | .032         | .018         | .010         | .005         | .003         | .002         | .001         | .000         | .000         | .000         | .000        | .000         |
| 8               | .232           | .155         | .100         | .062         | .037         | .022         | .013         | .007         | .004         | .002         | .001         | .000         | .000         | .000        | .000         |
| 9<br>10         | .341<br>.460   | .242<br>.347 | .166<br>.252 | .109<br>.176 | .070<br>.118 | .043<br>.077 | .026<br>.049 | .015         | .009         | .005<br>.011 | .002         | .000         | .000         | .000        | .000         |
| 10              | .400           | .541         | .202         | .170         | .110         | .077         | .049         | .030         | .010         | .011         | .004         | .001         | .000         | .000        | .000         |
| 11              | .579           | .462         | .353         | .260         | .185         | .127         | .085         | .055         | .035         | .021         | .008         | .003         | .001         | .000        | .000         |
| 12              | .689           | .576         | .463         | .358         | .268         | .193         | .135         | .092         | .061         | .039         | .015         | .005         | .002         | .001        | .000         |
| 13<br>14        | .781<br>.854   | .682<br>.772 | .573<br>.675 | .464<br>.570 | .363<br>.466 | .275<br>.368 | .201<br>.281 | .143         | .098         | .066<br>.105 | .028<br>.048 | .011         | .004         | .001        | .000<br>.001 |
| 15              | .907           | .844         | .764         | .669         | .568         | .467         | .371         | .287         | .215         | .157         | .048         | .034         | .014         | .005        | .001         |
|                 |                |              |              |              |              |              |              |              |              |              |              |              |              |             |              |
| 16              | .944           | .899         | .835         | .756         | .664         | .566         | .468         | .375         | .292         | .221         | .117         | .056         | .025         | .010        | .004         |
| 17              | .968           | .937         | .890         | .827         | .749         | .659         | .564         | .469         | .378         | .297         | .169         | .087         | .041         | .018        | .007         |
| 18<br>19        | .982<br>.991   | .963<br>.979 | .930<br>.957 | .883<br>.923 | .819<br>.875 | .742<br>.812 | .655<br>.736 | .562<br>.651 | .469<br>.561 | .381<br>.470 | .232         | .128         | .065 $.097$  | .030        | .013<br>.022 |
| 20              | .995           | .988         | .975         | .952         | .917         | .868         | .805         | .731         | .647         | .559         | .387         | .243         | .139         | .073        | .035         |
|                 |                |              |              |              |              |              |              |              |              |              |              |              |              |             |              |
| 21              | .998           | .994         | .986         | .971         | .947         | .911         | .861         | .799         | .725         | .644         | .472         | .314         | .190         | .106        | .054         |
| $\frac{22}{23}$ | .999<br>1.00   | .997<br>.999 | .992<br>.996 | .983<br>.991 | .967<br>.981 | .942<br>.963 | .905<br>.937 | .855<br>.899 | .793<br>.849 | .721<br>.787 | .556<br>.637 | .392<br>.473 | .252<br>.321 | .148        | .081<br>.115 |
| $\frac{23}{24}$ | 1.00           | .999         | .998         | .995         | .989         | .978         | .959         | .932         | .893         | .843         | .712         | .554         | .396         | .260        | .113         |
| 25              | 1.00           | 1.00         | .999         | .997         | .994         | .987         | .975         | .955         | .927         | .888         | .777         | .632         | .474         | .327        | .208         |
|                 |                |              |              |              |              |              |              |              |              |              |              |              |              |             |              |
| 26              | 1.00           |              | 1.00         |              | .997         | .993         | .985         | .972         | .951         | .922         | .832         | .704         | .552         | .400        | .267         |
| 27<br>28        | $1.00 \\ 1.00$ |              | 1.00<br>1.00 | .999         | .998<br>.999 | .996<br>.998 | .991<br>.995 | .983<br>.990 | .969<br>.980 | .948<br>.966 | .877<br>.913 | .768<br>.823 | .627<br>.697 | .475 $.550$ | .333<br>.403 |
| 29              | 1.00           |              | 1.00         |              | 1.00         | .999         | .997         | .994         | .988         | .978         | .940         | .868         | .759         | .623        | .476         |
| 30              | 1.00           |              | 1.00         |              | 1.00         | .999         | .999         | .997         | .993         | .987         | .959         | .904         | .813         | .690        | .548         |
| 31              | 1.00           | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | .999         | .998         | .996         | .992         | .973         | .932         | .859         | .752        | .619         |
| 32              |                |              |              | 1.00         |              | 1.00         |              |              | .998         | .995         | .983         | .953         | .896         | .805        | .685         |
| 33              | 1.00           |              |              | 1.00         |              | 1.00         |              | 1.00         | .999         | .997         | .989         | .969         | .925         | .850        | .744         |
| 34              | 1.00           | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | .999         | .999         | .994         | .979         | .947         | .888        | .797         |
| 35              | 1.00           | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | .999         | .996         | .987         | .964         | .918        | .843         |
| 36              | 1.00           | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | .998         | .992         | .976         | .941        | .880         |
| 37              |                |              |              | 1.00         |              |              |              |              | 1.00         |              | .999         | .995         | .984         | .959        | .911         |
| 38              | 1.00           |              |              | 1.00         |              | 1.00         | 1.00         | 1.00         | 1.00         |              | .999         | .997         | .990         | .972        | .935         |
| 39              | 1.00           |              |              | 1.00         |              | 1.00         | 1.00         | 1.00         | 1.00         |              | 1.00         | .998         | .994         | .981        | .954         |
| 40              | 1.00           | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | .999         | .996         | .988        | .968         |
| 41              |                |              |              | 1.00         |              | 1.00         |              |              | 1.00         |              |              | .999         | .998         | .992        | .978         |
| 42              |                |              |              | 1.00         |              | 1.00         |              |              | 1.00         |              |              |              | .999         | .995        | .985         |
| 43              |                |              |              | 1.00         |              | 1.00         |              |              | 1.00         |              | 1.00         | 1.00         | .999         | .997        | .990         |
| 44              | 1.00           |              |              | 1.00         |              | 1.00         |              | 1.00         | 1.00         |              | 1.00         |              | 1.00         | .998        | .994         |
| 45              | 1.00           | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | .999        | .996         |
| 46              |                |              |              | 1.00         |              |              |              |              | 1.00         |              |              |              |              | .999        | .998         |
| 47              | 1.00           |              |              | 1.00         |              | 1.00         |              | 1.00         | 1.00         | 1.00         | 1.00         |              | 1.00         |             | .999         |
| 48              |                |              |              | 1.00         |              |              |              |              | 1.00         |              |              |              | 1.00         |             | .999         |
| 49<br>50        |                |              |              | 1.00         |              |              |              |              | 1.00         |              |              |              | 1.00         |             | .999<br>1.00 |
| 90              | 1.00           | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00         | 1.00        | 1.00         |

 $432 \hspace{3.1em} Appendix$ 

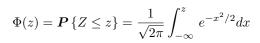
Table A4. Standard Normal distribution

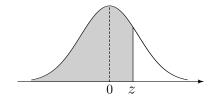
$$\Phi(z) = \mathbf{P} \left\{ Z \le z \right\} = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{z} e^{-x^2/2} dx$$



| z       | -0.09   | -0.08 | -0.07 | -0.06 | -0.05 | -0.04 | -0.03 | -0.02 | -0.01 | -0.00 |
|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -(3.9+) | .0000   | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 |
| -3.8    | .0001   | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 |
| -3.7    | .0001   | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 |
| -3.6    | .0001   | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0002 | .0002 |
| -3.5    | .0002   | .0002 | .0002 | .0002 | .0002 | .0002 | .0002 | .0002 | .0002 | .0002 |
| -3.4    | .0002   | .0003 | .0003 | .0003 | .0003 | .0003 | .0003 | .0003 | .0003 | .0003 |
| -3.3    | .0003   | .0004 | .0004 | .0004 | .0004 | .0004 | .0004 | .0005 | .0005 | .0005 |
| -3.2    | .0005   | .0005 | .0005 | .0006 | .0006 | .0006 | .0006 | .0006 | .0007 | .0007 |
| -3.1    | .0007   | .0007 | .0008 | .0008 | .0008 | .0008 | .0009 | .0009 | .0009 | .0010 |
| -3.0    | .0010   | .0010 | .0011 | .0011 | .0011 | .0012 | .0012 | .0013 | .0013 | .0013 |
| -2.9    | .0014   | .0014 | .0015 | .0015 | .0016 | .0016 | .0017 | .0018 | .0018 | .0019 |
| -2.8    | .0014   | .0014 | .0013 | .0013 | .0022 | .0023 | .0023 | .0018 | .0015 | .0015 |
| -2.7    | .0019   | .0020 | .0021 | .0021 | .0022 | .0023 | .0023 | .0024 | .0023 | .0020 |
| -2.6    | .0026   | .0027 | .0028 | .0029 | .0040 | .0031 | .0032 | .0033 | .0034 | .0033 |
| -2.5    | .0048   | .0049 | .0051 | .0052 | .0054 | .0055 | .0057 | .0059 | .0060 | .0062 |
| -2.0    | .0040   | .0045 | .0001 | .0002 | .0004 | .0000 | .0001 | .0003 | .0000 | .0002 |
| -2.4    | .0064   | .0066 | .0068 | .0069 | .0071 | .0073 | .0075 | .0078 | .0080 | .0082 |
| -2.3    | .0084   | .0087 | .0089 | .0091 | .0094 | .0096 | .0099 | .0102 | .0104 | .0107 |
| -2.2    | .0110   | .0113 | .0116 | .0119 | .0122 | .0125 | .0129 | .0132 | .0136 | .0139 |
| -2.1    | .0143   | .0146 | .0150 | .0154 | .0158 | .0162 | .0166 | .0170 | .0174 | .0179 |
| -2.0    | .0183   | .0188 | .0192 | .0197 | .0202 | .0207 | .0212 | .0217 | .0222 | .0228 |
| -1.9    | .0233   | .0239 | .0244 | .0250 | .0256 | .0262 | .0268 | .0274 | .0281 | .0287 |
| -1.8    | .0294   | .0301 | .0307 | .0314 | .0322 | .0329 | .0336 | .0344 | .0351 | .0359 |
| -1.7    | .0367   | .0375 | .0384 | .0392 | .0401 | .0409 | .0418 | .0427 | .0436 | .0446 |
| -1.6    | .0455   | .0465 | .0475 | .0485 | .0495 | .0505 | .0516 | .0526 | .0537 | .0548 |
| -1.5    | .0559   | .0571 | .0582 | .0594 | .0606 | .0618 | .0630 | .0643 | .0655 | .0668 |
| -1.4    | .0681   | .0694 | .0708 | .0721 | .0735 | .0749 | .0764 | .0778 | .0793 | .0808 |
| -1.3    | .0823   | .0838 | .0853 | .0869 | .0885 | .0901 | .0918 | .0934 | .0951 | .0968 |
| -1.2    | .0985   | .1003 | .1020 | .1038 | .1056 | .1075 | .1093 | .1112 | .1131 | .1151 |
| -1.1    | .1170   | .1190 | .1210 | .1230 | .1251 | .1271 | .1292 | .1314 | .1335 | .1357 |
| -1.0    | .1379   | .1401 | .1423 | .1446 | .1469 | .1492 | .1515 | .1539 | .1562 | .1587 |
| -0.9    | .1611   | .1635 | .1660 | .1685 | .1711 | .1736 | .1762 | .1788 | .1814 | .1841 |
| -0.8    | .1867   | .1894 | .1922 | .1949 | .1977 | .2005 | .2033 | .2061 | .2090 | .2119 |
| -0.7    | .2148   | .2177 | .2206 | .2236 | .2266 | .2296 | .2327 | .2358 | .2389 | .2420 |
| -0.6    | .2451   | .2483 | .2514 | .2546 | .2578 | .2611 | .2643 | .2676 | .2709 | .2743 |
| -0.5    | .2776   | .2810 | .2843 | .2877 | .2912 | .2946 | .2981 | .3015 | .3050 | .3085 |
| -0.4    | .3121   | .3156 | .3192 | .3228 | .3264 | .3300 | .3336 | .3372 | .3409 | .3446 |
| -0.4    | .3483   | .3520 | .3557 | .3594 | .3632 | .3669 | .3707 | .3745 | .3783 | .3821 |
| -0.2    | .3859   | .3897 | .3936 | .3974 | .4013 | .4052 | .4090 | .4129 | .4168 | .4207 |
| -0.2    | .4247   | .4286 | .4325 | .4364 | .4404 | .4443 | .4483 | .4522 | .4562 | .4602 |
| -0.0    | .4641   | .4681 | .4721 | .4761 | .4801 | .4840 | .4880 | .4920 | .4960 | .5000 |
| -0.0    | 1 .7071 | .4001 | .7121 | .101  | .4001 | .4040 | .4000 | .4020 | .4300 | .0000 |

Table A4, continued.
Standard Normal distribution

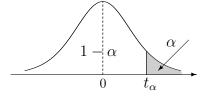




| z    | 0.00  | 0.01  | 0.02  | 0.03  | 0.04  | 0.05  | 0.06  | 0.07  | 0.08  | 0.09  |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0  | .5000 | .5040 | .5080 | .5120 | .5160 | .5199 | .5239 | .5279 | .5319 | .5359 |
| 0.1  | .5398 | .5438 | .5478 | .5517 | .5557 | .5596 | .5636 | .5675 | .5714 | .5753 |
| 0.2  | .5793 | .5832 | .5871 | .5910 | .5948 | .5987 | .6026 | .6064 | .6103 | .6141 |
| 0.3  | .6179 | .6217 | .6255 | .6293 | .6331 | .6368 | .6406 | .6443 | .6480 | .6517 |
| 0.4  | .6554 | .6591 | .6628 | .6664 | .6700 | .6736 | .6772 | .6808 | .6844 | .6879 |
| 0.5  | .6915 | .6950 | .6985 | .7019 | .7054 | .7088 | .7123 | .7157 | .7190 | .7224 |
| 0.6  | .7257 | .7291 | .7324 | .7357 | .7389 | .7422 | .7454 | .7486 | .7517 | .7549 |
| 0.7  | .7580 | .7611 | .7642 | .7673 | .7704 | .7734 | .7764 | .7794 | .7823 | .7852 |
| 0.8  | .7881 | .7910 | .7939 | .7967 | .7995 | .8023 | .8051 | .8078 | .8106 | .8133 |
| 0.9  | .8159 | .8186 | .8212 | .8238 | .8264 | .8289 | .8315 | .8340 | .8365 | .8389 |
| 1.0  | .8413 | .8438 | .8461 | .8485 | .8508 | .8531 | .8554 | .8577 | .8599 | .8621 |
| 1.1  | .8643 | .8665 | .8686 | .8708 | .8729 | .8749 | .8770 | .8790 | .8810 | .8830 |
| 1.2  | .8849 | .8869 | .8888 | .8907 | .8925 | .8944 | .8962 | .8980 | .8997 | .9015 |
| 1.3  | .9032 | .9049 | .9066 | .9082 | .9099 | .9115 | .9131 | .9147 | .9162 | .9177 |
| 1.4  | .9192 | .9207 | .9222 | .9236 | .9251 | .9265 | .9279 | .9292 | .9306 | .9319 |
| 1.5  | .9332 | .9345 | .9357 | .9370 | .9382 | .9394 | .9406 | .9418 | .9429 | .9441 |
| 1.6  | .9452 | .9463 | .9474 | .9484 | .9495 | .9505 | .9515 | .9525 | .9535 | .9545 |
| 1.7  | .9554 | .9564 | .9573 | .9582 | .9591 | .9599 | .9608 | .9616 | .9625 | .9633 |
| 1.8  | .9641 | .9649 | .9656 | .9664 | .9671 | .9678 | .9686 | .9693 | .9699 | .9706 |
| 1.9  | .9713 | .9719 | .9726 | .9732 | .9738 | .9744 | .9750 | .9756 | .9761 | .9767 |
| 2.0  | .9772 | .9778 | .9783 | .9788 | .9793 | .9798 | .9803 | .9808 | .9812 | .9817 |
| 2.1  | .9821 | .9826 | .9830 | .9834 | .9838 | .9842 | .9846 | .9850 | .9854 | .9857 |
| 2.2  | .9861 | .9864 | .9868 | .9871 | .9875 | .9878 | .9881 | .9884 | .9887 | .9890 |
| 2.3  | .9893 | .9896 | .9898 | .9901 | .9904 | .9906 | .9909 | .9911 | .9913 | .9916 |
| 2.4  | .9918 | .9920 | .9922 | .9925 | .9927 | .9929 | .9931 | .9932 | .9934 | .9936 |
| 2.5  | .9938 | .9940 | .9941 | .9943 | .9945 | .9946 | .9948 | .9949 | .9951 | .9952 |
| 2.6  | .9953 | .9955 | .9956 | .9957 | .9959 | .9960 | .9961 | .9962 | .9963 | .9964 |
| 2.7  | .9965 | .9966 | .9967 | .9968 | .9969 | .9970 | .9971 | .9972 | .9973 | .9974 |
| 2.8  | .9974 | .9975 | .9976 | .9977 | .9977 | .9978 | .9979 | .9979 | .9980 | .9981 |
| 2.9  | .9981 | .9982 | .9982 | .9983 | .9984 | .9984 | .9985 | .9985 | .9986 | .9986 |
| 3.0  | .9987 | .9987 | .9987 | .9988 | .9988 | .9989 | .9989 | .9989 | .9990 | .9990 |
| 3.1  | .9990 | .9991 | .9991 | .9991 | .9992 | .9992 | .9992 | .9992 | .9993 | .9993 |
| 3.2  | .9993 | .9993 | .9994 | .9994 | .9994 | .9994 | .9994 | .9995 | .9995 | .9995 |
| 3.3  | .9995 | .9995 | .9995 | .9996 | .9996 | .9996 | .9996 | .9996 | .9996 | .9997 |
| 3.4  | .9997 | .9997 | .9997 | .9997 | .9997 | .9997 | .9997 | .9997 | .9997 | .9998 |
| 3.5  | .9998 | .9998 | .9998 | .9998 | .9998 | .9998 | .9998 | .9998 | .9998 | .9998 |
| 3.6  | .9998 | .9998 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 |
| 3.7  | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 |
| 3.8  | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 |
| 3.9+ | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |

Table A5. Student's T-distribution

 $t_{\alpha};$  critical values, such that  $\boldsymbol{P}\left\{ t>t_{\alpha}\right\} =\alpha$ 



| $\nu$    | $\alpha$ , the right-tail probability |       |        |       |       |       |       |       |       |       |
|----------|---------------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| (d.f.)   | .10                                   | .05   | .025   | .02   | .01   | .005  | .0025 | .001  | .0005 | .0001 |
| 1        | 3.078                                 | 6.314 | 12.706 | 15.89 | 31.82 | 63.66 | 127.3 | 318.3 | 636.6 | 3185  |
| 2        | 1.886                                 | 2.920 | 4.303  | 4.849 | 6.965 | 9.925 | 14.09 | 22.33 | 31.60 | 70.71 |
| 3        | 1.638                                 | 2.353 | 3.182  | 3.482 | 4.541 | 5.841 | 7.453 | 10.21 | 12.92 | 22.20 |
| 4        | 1.533                                 | 2.132 | 2.776  | 2.999 | 3.747 | 4.604 | 5.598 | 7.173 | 8.610 | 13.04 |
| 5        | 1.476                                 | 2.015 | 2.571  | 2.757 | 3.365 | 4.032 | 4.773 | 5.894 | 6.869 | 9.676 |
| 6        | 1.440                                 | 1.943 | 2.447  | 2.612 | 3.143 | 3.707 | 4.317 | 5.208 | 5.959 | 8.023 |
| 7        | 1.415                                 | 1.895 | 2.365  | 2.517 | 2.998 | 3.499 | 4.029 | 4.785 | 5.408 | 7.064 |
| 8        | 1.397                                 | 1.860 | 2.306  | 2.449 | 2.896 | 3.355 | 3.833 | 4.501 | 5.041 | 6.442 |
| 9        | 1.383                                 | 1.833 | 2.262  | 2.398 | 2.821 | 3.250 | 3.690 | 4.297 | 4.781 | 6.009 |
| 10       | 1.372                                 | 1.812 | 2.228  | 2.359 | 2.764 | 3.169 | 3.581 | 4.144 | 4.587 | 5.694 |
| 11       | 1.363                                 | 1.796 | 2.201  | 2.328 | 2.718 | 3.106 | 3.497 | 4.025 | 4.437 | 5.453 |
| 12       | 1.356                                 | 1.782 | 2.179  | 2.303 | 2.681 | 3.055 | 3.428 | 3.930 | 4.318 | 5.263 |
| 13       | 1.350                                 | 1.771 | 2.160  | 2.282 | 2.650 | 3.012 | 3.372 | 3.852 | 4.221 | 5.111 |
| 14       | 1.345                                 | 1.761 | 2.145  | 2.264 | 2.624 | 2.977 | 3.326 | 3.787 | 4.140 | 4.985 |
| 15       | 1.341                                 | 1.753 | 2.131  | 2.249 | 2.602 | 2.947 | 3.286 | 3.733 | 4.073 | 4.880 |
| 16       | 1.337                                 | 1.746 | 2.120  | 2.235 | 2.583 | 2.921 | 3.252 | 3.686 | 4.015 | 4.790 |
| 17       | 1.333                                 | 1.740 | 2.110  | 2.224 | 2.567 | 2.898 | 3.222 | 3.646 | 3.965 | 4.715 |
| 18       | 1.330                                 | 1.734 | 2.101  | 2.214 | 2.552 | 2.878 | 3.197 | 3.610 | 3.922 | 4.648 |
| 19       | 1.328                                 | 1.729 | 2.093  | 2.205 | 2.539 | 2.861 | 3.174 | 3.579 | 3.883 | 4.590 |
| 20       | 1.325                                 | 1.725 | 2.086  | 2.197 | 2.528 | 2.845 | 3.153 | 3.552 | 3.850 | 4.539 |
| 21       | 1.323                                 | 1.721 | 2.080  | 2.189 | 2.518 | 2.831 | 3.135 | 3.527 | 3.819 | 4.492 |
| 22       | 1.321                                 | 1.717 | 2.074  | 2.183 | 2.508 | 2.819 | 3.119 | 3.505 | 3.792 | 4.452 |
| 23       | 1.319                                 | 1.714 | 2.069  | 2.177 | 2.500 | 2.807 | 3.104 | 3.485 | 3.768 | 4.416 |
| 24       | 1.318                                 | 1.711 | 2.064  | 2.172 | 2.492 | 2.797 | 3.091 | 3.467 | 3.745 | 4.382 |
| 25       | 1.316                                 | 1.708 | 2.060  | 2.167 | 2.485 | 2.787 | 3.078 | 3.450 | 3.725 | 4.352 |
| 26       | 1.315                                 | 1.706 | 2.056  | 2.162 | 2.479 | 2.779 | 3.067 | 3.435 | 3.707 | 4.324 |
| 27       | 1.314                                 | 1.703 | 2.052  | 2.158 | 2.473 | 2.771 | 3.057 | 3.421 | 3.689 | 4.299 |
| 28       | 1.313                                 | 1.701 | 2.048  | 2.154 | 2.467 | 2.763 | 3.047 | 3.408 | 3.674 | 4.276 |
| 29       | 1.311                                 | 1.699 | 2.045  | 2.150 | 2.462 | 2.756 | 3.038 | 3.396 | 3.660 | 4.254 |
| 30       | 1.310                                 | 1.697 | 2.042  | 2.147 | 2.457 | 2.750 | 3.030 | 3.385 | 3.646 | 4.234 |
| 32       | 1.309                                 | 1.694 | 2.037  | 2.141 | 2.449 | 2.738 | 3.015 | 3.365 | 3.622 | 4.198 |
| 34       | 1.307                                 | 1.691 | 2.032  | 2.136 | 2.441 | 2.728 | 3.002 | 3.348 | 3.601 | 4.168 |
| 36       | 1.306                                 | 1.688 | 2.028  | 2.131 | 2.434 | 2.719 | 2.990 | 3.333 | 3.582 | 4.140 |
| 38       | 1.304                                 | 1.686 | 2.024  | 2.127 | 2.429 | 2.712 | 2.980 | 3.319 | 3.566 | 4.115 |
| 40       | 1.303                                 | 1.684 | 2.021  | 2.123 | 2.423 | 2.704 | 2.971 | 3.307 | 3.551 | 4.094 |
| 45       | 1.301                                 | 1.679 | 2.014  | 2.115 | 2.412 | 2.690 | 2.952 | 3.281 | 3.520 | 4.049 |
| 50       | 1.299                                 | 1.676 | 2.009  | 2.109 | 2.403 | 2.678 | 2.937 | 3.261 | 3.496 | 4.014 |
| 55       | 1.297                                 | 1.673 | 2.004  | 2.104 | 2.396 | 2.668 | 2.925 | 3.245 | 3.476 | 3.985 |
| 60       | 1.296                                 | 1.671 | 2.000  | 2.099 | 2.390 | 2.660 | 2.915 | 3.232 | 3.460 | 3.962 |
| 70       | 1.294                                 | 1.667 | 1.994  | 2.093 | 2.381 | 2.648 | 2.899 | 3.211 | 3.435 | 3.926 |
| 80       | 1.292                                 | 1.664 | 1.990  | 2.088 | 2.374 | 2.639 | 2.887 | 3.195 | 3.416 | 3.899 |
| 90       | 1.291                                 | 1.662 | 1.987  | 2.084 | 2.368 | 2.632 | 2.878 | 3.183 | 3.402 | 3.878 |
| 100      | 1.290                                 | 1.660 | 1.984  | 2.081 | 2.364 | 2.626 | 2.871 | 3.174 | 3.390 | 3.861 |
| 200      | 1.286                                 | 1.653 | 1.972  | 2.067 | 2.345 | 2.601 | 2.838 | 3.131 | 3.340 | 3.789 |
| $\infty$ | 1.282                                 | 1.645 | 1.960  | 2.054 | 2.326 | 2.576 | 2.807 | 3.090 | 3.290 | 3.719 |
| $\sim$   | 1.202                                 | 1.010 | 1.500  | 2.001 | 2.020 | 2.010 | 2.007 | 0.000 | 0.200 | 0.110 |